

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY-1

Core samples from Stuart corehole, Wasatch Development Company, drilled at a point whence the NE corner of sec. 34, T. 4 S., R. 97 W., bears N. 7° 31' E., 1548.5 feet, Garfield County, Colorado

Surface Elevation 8,038.8 feet Mahogany Marker not reached Total Depth 252.9 feet

From	To	Description
14.7	59.2	Siltstone, light yellow, tan, and light gray, massive, some vertical fracture with fracture faces ironstained. Common scattered vegetation fragments. Core badly broken, recovery poor.
59.2	76.8	Sandstone, very fine grained, light gray, siltstone, light gray, massive. Rare vertical fracture with ironstained fracture faces. Rare pyrite lense 1/2 inch or less long. Core broken.
76.8	92.7	Marlstone, tan, light brown and dark brown, well defined bedding. Multiple vertical fractures with fracture faces heavily coated with clear crystalline calcite.
92.7	93.5	Limestone, finely crystalline, light gray to dirty white, stringers 1/2 inch wide and less of light brown marlstone. Common inclusions 1/4 inch and less of pyrite.
93.5	96.3	Marlstone, tan and light brown, well defined bedding, rare bands 1/2 inch and less of light gray crystalline limestone.
96.3	97.1	Siltstone, calcareous, light gray, massive, scattered vegetation fragments.
97.1	100.1	Marlstone, tan and light brown, poorly defined to well defined bedding. Common 1/4 inch and less inclusions of pyrite. A 1/2-inch band of light gray limestone occurs at 97.8 feet.
100.1	105.2	Marlstone, silty, light gray, tan and light brown, massive to well defined bedding. Common inclusions 1/2 inch long and less of pyrite. A 2-inch inclusion containing pyrite and clear crystals of dolomite occurs at 100.8 feet.
105.2	106.0	Siltstone, blue-gray, massive.
106.0	109.7	Marlstone, silty, light gray, tan and light brown, massive to well defined bedding. A 2-inch band containing numerous crystal cavities lined with pyrite and clear, very well-formed crystals of dolomite occurs at 108.3 feet.
109.7	122.6	Siltstone, tan, light gray and light brown, generally massive with some well-defined and lightly contorted bedding. Rare stringers 1/4 inch and less of pyrite.
122.6	145.2	Siltstone, tan and light brown and sandstone, very fine grained, dirty white, generally massive with some well defined bedding.
145.2	148.2	Sandstone, very fine grained, light gray to dirty white, massive, numerous vegetation fragments.
148.2	155.6	Siltstone, light gray, blue-gray, and light brown, and sandstone, very fine grained, light gray. A vertical fracture with fracture faces heavily coated with yellowish clear crystalline calcite occurs at 150.5 feet.

1 By H. N. Smith

Illustration No. SBR-2550P

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Surface Elevation 8,038.8 feet Mahogany Marker not reached Total Depth 252.9 feet

From	To	Description
155.6	199.0	Siltstone and sandstone, very fine grained, tan, light gray and dirty white, generally massive with some well defined and contorted bedding. Rare inclusions 1/4 inch and less of pyrite and scattered flakes of pyrite.
199.0	200.3	Sample lost in coring.
200.3	211.1	Siltstone, light gray, dirty white and tan, generally massive.
211.1	213.3	Siltstone and silty marlstone, tan and light gray, massive to well defined bedding. A 1/4-inch band of pyrite occurs at 211.9 feet.
213.3	218.3	Siltstone, light gray and dark gray, massive. Some vertical fractures with fracture faces lightly coated with pyrite.
218.3	218.9	Sample lost in coring.
218.9	222.7	Siltstone, tan, light gray, and dirty white, massive. A 1/2-inch band of fine grained pyrite occurs at 220.6 feet.
222.7	224.9	Marlstone, light brown, greenish-brown and dark gray, massive to well defined bedding. A vertical fracture with fracture faces heavily coated with calcite occurs at 223.0 feet.
224.9	232.0	Siltstone, light gray and dirty white, massive, interbedded with marlstone, tan and light brown, containing well defined bedding.
232.0	235.3	Siltstone, light gray, massive.
235.3	236.8	Sample lost in coring.
236.8	252.9	Siltstone, light gray and dirty white, massive to poorly defined and contorted bedding.
252.9		Bottom of hole.

X-ray diffraction identifications were made on the following samples:

100.8	Found to be dolomite.
108.3	Found to be dolomite.

Illustration No. SBR-2551P

Laramie Petroleum Research Center, Laramie, Wyoming

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